

Express Mail Label No. EV 453253047 US

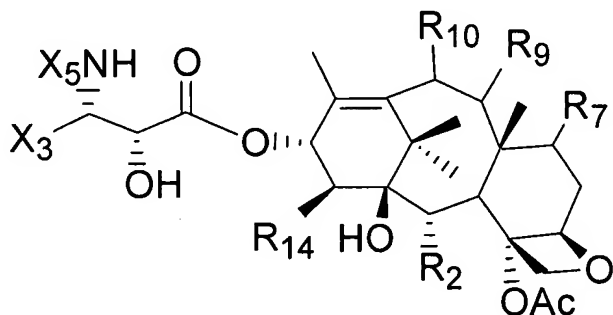
## AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in this application.

### Listing of Claims

Claims 1-33 (cancel)

Claim 34 (original) A method for preparing a pharmaceutical composition comprising mixing at least one nonaqueous, pharmaceutically acceptable solvent and a taxane having the formula



wherein

R<sub>2</sub> is acyloxy;

R<sub>7</sub> is carbonate;

R<sub>9</sub> is keto, hydroxy, or acyloxy;

R<sub>10</sub> is hydroxy;

R<sub>14</sub> is hydrido or hydroxy;

X<sub>3</sub> is substituted or unsubstituted alkyl, alkenyl, alkynyl or heterocyclo;

X<sub>5</sub> is -COX<sub>10</sub>, -COOX<sub>10</sub>, or -CONHX<sub>10</sub>;

X<sub>10</sub> is hydrocarbyl, substituted hydrocarbyl, or heterocyclo; and

Ac is acetyl.

Claims 35-45 (cancel)

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Claim 46 (previously presented) The method of claim 34 wherein  $X_3$  is 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, 4-pyridyl,  $C_1 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl.

Claim 47 (previously presented) The method of claim 34 wherein  $R_7$  is  $R_{7a}OCOO-$  and  $R_{7a}$  is methyl or ethyl.

Claim 48 (previously presented) The method of claim 34 wherein  $X_5$  is  $-COX_{10}$  and  $X_{10}$  is substituted or unsubstituted phenyl, 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, 4-pyridyl,  $C_1 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl, or  $X_5$  is  $-COOX_{10}$  and  $X_{10}$  is substituted or unsubstituted  $C_1 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl.

Claim 49 (previously presented) The method of claim 34 wherein  $X_3$  is 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, 4-pyridyl,  $C_1 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl,  $R_7$  is  $R_{7a}OCOO-$  and  $R_{7a}$  is methyl or ethyl.

Claim 50 (previously presented) The method of claim 34 wherein  $X_3$  is 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, 4-pyridyl,  $C_1 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl,  $X_5$  is  $-COX_{10}$  and  $X_{10}$  is substituted or unsubstituted phenyl, 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, 4-pyridyl,  $C_1 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl, or  $X_5$  is  $-COOX_{10}$  and  $X_{10}$  is substituted or unsubstituted  $C_1 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl.

Claim 51 (previously presented) The method of claim 34 wherein  $R_7$  is  $R_{7a}OCOO-$  and  $R_{7a}$  is methyl or ethyl,  $X_5$  is  $-COX_{10}$  and  $X_{10}$  is substituted or unsubstituted phenyl, 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, 4-pyridyl,  $C_1 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl, or  $X_5$  is  $-COOX_{10}$  and  $X_{10}$  is substituted or unsubstituted  $C_1 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl.

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Claim 52 (previously presented) The method of claim 34 wherein  $X_3$  is 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, 4-pyridyl,  $C_1 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl,  $R_7$  is  $R_{7a}OCO-$ ,  $R_{7a}$  is methyl or ethyl,  $X_5$  is  $-COX_{10}$  and  $X_{10}$  is substituted or unsubstituted phenyl, 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, 4-pyridyl,  $C_1 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl, or  $X_5$  is  $-COOX_{10}$  and  $X_{10}$  is substituted or unsubstituted  $C_1 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl.

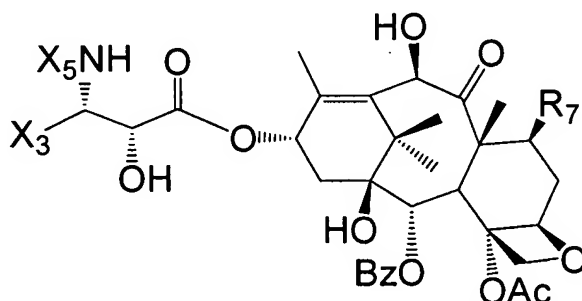
Claim 53 (previously presented) The method of claim 34 wherein  $X_3$  is thienyl.

Claim 54 (previously presented) The method of claim 34 wherein  $X_3$  is 2-thienyl.

Claim 55 (previously presented) The method of claim 34 wherein  $X_3$  is furyl.

Claim 56 (previously presented) The method of claim 34 wherein  $X_3$  is 2-furyl.

Claim 57 (currently amended) A taxane having the formula



wherein  $R_2$ ,  $R_7$ ,  $X_5$ ,  $X_{10}$  and  $X_3$ , in combination, are selected from one of combinations 1-45 appearing in the following table:

Combination No.	$R_7$	$R_{7a}$	$X_5$	$X_{10}$	$X_3$
1	$R_{7a}OCO-$	methyl	$-COOX_{10}$	isopropyl	2-thienyl
2	$R_{7a}OCO-$	ethyl	$-COOX_{10}$	isobutyl	2-thienyl
3	$R_{7a}OCO-$	methyl	$-COOX_{10}$	t-butyl	2-thienyl

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Combination No.	R <sub>7</sub>	R <sub>7a</sub>	X <sub>5</sub>	X <sub>10</sub>	X <sub>3</sub>
4	R <sub>7a</sub> OCOO-	ethyl	-COOX <sub>10</sub>	t-butyl	2-thienyl
5	R <sub>7a</sub> OCOO-	methyl	-COOX <sub>10</sub>	t-butyl	3-thienyl
6	R <sub>7a</sub> OCOO-	ethyl	-COOX <sub>10</sub>	t-butyl	3-thienyl
7	R <sub>7a</sub> OCOO-	methyl	-COOX <sub>10</sub>	isobutyl	3-thienyl
8	R <sub>7a</sub> OCOO-	ethyl	-COOX <sub>10</sub>	isobutyl	3-thienyl
9	R <sub>7a</sub> OCOO-	methyl	-COOX <sub>10</sub>	t-butyl	2-furyl
10	R <sub>7a</sub> OCOO-	ethyl	-COOX <sub>10</sub>	t-butyl	2-furyl
11	R <sub>7a</sub> OCOO-	methyl	-COOX <sub>10</sub>	isobutyl	2-furyl
12	R <sub>7a</sub> OCOO-	ethyl	-COOX <sub>10</sub>	isobutyl	2-furyl
13	R <sub>7a</sub> OCOO-	benzyl	-COOX <sub>10</sub>	t-butyl	2-furyl
14	R <sub>7a</sub> OCOO-	benzyl	-COOX <sub>10</sub>	t-amyl	2-furyl
15	R <sub>7a</sub> OCOO-	methyl	-COOX <sub>10</sub>	t-butyl	3-furyl
16	R <sub>7a</sub> OCOO-	ethyl	-COOX <sub>10</sub>	t-butyl	3-furyl
17	R <sub>7a</sub> OCOO-	methyl	-COOX <sub>10</sub>	isobutyl	3-furyl
18	R <sub>7a</sub> OCOO-	ethyl	-COOX <sub>10</sub>	isobutyl	3-furyl
19	R <sub>7a</sub> OCOO-	methyl	-COOX <sub>10</sub>	t-butyl	isobutenyl
20	R <sub>7a</sub> OCOO-	ethyl	-COOX <sub>10</sub>	t-butyl	isobutenyl
21	R <sub>7a</sub> OCOO-	methyl	-COOX <sub>10</sub>	isobutyl	isobutenyl
22	R <sub>7a</sub> OCOO-	ethyl	-COOX <sub>10</sub>	isobutyl	isobutenyl
23	R <sub>7a</sub> OCOO-	methyl	-COOX <sub>10</sub>	t-butyl	cyclopropyl
24	R <sub>7a</sub> OCOO-	ethyl	-COOX <sub>10</sub>	t-butyl	cyclopropyl
25	R <sub>7a</sub> OCOO-	methyl	-COOX <sub>10</sub>	isobutyl	cyclopropyl
26	R <sub>7a</sub> OCOO-	ethyl	-COOX <sub>10</sub>	isobutyl	cyclopropyl
27	R <sub>7a</sub> OCOO-	methyl	-COX <sub>10</sub>	2-furyl	2-thienyl
28	R <sub>7a</sub> OCOO-	ethyl	-COX <sub>10</sub>	2-furyl	2-thienyl
29	R <sub>7a</sub> OCOO-	methyl	-COX <sub>10</sub>	2-thienyl	2-thienyl
30	R <sub>7a</sub> OCOO-	ethyl	-COX <sub>10</sub>	2-thienyl	2-thienyl

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Combination No.	R <sub>7</sub>	R <sub>7a</sub>	X <sub>5</sub>	X <sub>10</sub>	X <sub>3</sub>
31	R <sub>7a</sub> OCOO-	methyl	-COX <sub>10</sub>	trans-propenyl	3-thienyl
32	R <sub>7a</sub> OCOO-	ethyl	-COX <sub>10</sub>	trans-propenyl	3-thienyl
33	R <sub>7a</sub> OCOO-	methyl	-COX <sub>10</sub>	trans-propenyl	2-furyl
34	R <sub>7a</sub> OCOO-	ethyl	-COX <sub>10</sub>	trans-propenyl	2-furyl
35	R <sub>7a</sub> OCOO-	methyl	-COX <sub>10</sub>	phenyl	2-thienyl
36	R <sub>7a</sub> OCOO-	ethyl	-COX <sub>10</sub>	phenyl	2-thienyl
37	R <sub>7a</sub> OCOO-	methyl	-COX <sub>10</sub>	trans-propenyl	2-thienyl
38	R <sub>7a</sub> OCOO-	ethyl	-COX <sub>10</sub>	trans-propenyl	2-thienyl
39	R <sub>7a</sub> OCOO-	methyl	-COX <sub>10</sub>	isobutenyl	2-thienyl
40	R <sub>7a</sub> OCOO-	ethyl	-COX <sub>10</sub>	isobutenyl	2-thienyl
41	R <sub>7a</sub> OCOO-	methyl	-COX <sub>10</sub>	trans-propenyl	3-furyl
42	R <sub>7a</sub> OCOO-	ethyl	-COX <sub>10</sub>	trans-propenyl	3-furyl
43	R <sub>7a</sub> OCOO-	benzyl	-COX <sub>10</sub>	trans-propenyl	2-thienyl
44	R <sub>7a</sub> OCOO-	ethyl	-COX <sub>10</sub>	isobutenyl	2-furyl
45	R <sub>7a</sub> OCOO-	benzyl	-COX <sub>10</sub>	isobutenyl	2-furyl

Claim 58 (previously presented) The taxane of claim 57 wherein R<sub>2</sub> is benzoyloxy; R<sub>7</sub> is R<sub>7a</sub>OCOO-; X<sub>5</sub> is -COOX<sub>10</sub>; X<sub>10</sub> is isopropyl or isobutyl; X<sub>3</sub> is 2-thienyl; and R<sub>7a</sub> is methyl or ethyl.

Claim 59 (previously presented) The taxane of claim 57 wherein R<sub>2</sub> is benzoyloxy; R<sub>7</sub> is R<sub>7a</sub>OCOO-; X<sub>5</sub> is -COOX<sub>10</sub>; X<sub>10</sub> is t-butyl; X<sub>3</sub> is 2-thienyl, and R<sub>7a</sub> is methyl or ethyl.

Claim 60 (previously presented) The taxane of claim 57 wherein R<sub>2</sub> is benzoyloxy; R<sub>7</sub> is R<sub>7a</sub>OCOO-; X<sub>5</sub> is -COOX<sub>10</sub>; X<sub>10</sub> is t-butyl; X<sub>3</sub> is 3-thienyl, and R<sub>7a</sub> is methyl or ethyl.

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Claim 61 (previously presented) The taxane of claim 57 wherein  $R_2$  is benzoyloxy;  $R_7$  is  $R_{7a}OCO-$ ;  $X_5$  is  $-COOX_{10}$ ;  $X_{10}$  is isobutyl;  $X_3$  is 3-thienyl, and  $R_{7a}$  is methyl or ethyl.

Claim 62 (previously presented) The taxane of claim 57 wherein  $R_2$  is benzoyloxy;  $R_7$  is  $R_{7a}OCO-$ ;  $X_5$  is  $-COOX_{10}$ ;  $X_{10}$  is t-butyl;  $X_3$  is 2-furyl; and  $R_{7a}$  is methyl or ethyl.

Claim 63 (previously presented) The taxane of claim 57 wherein  $R_2$  is benzoyloxy;  $R_7$  is  $R_{7a}OCO-$ ;  $X_5$  is  $-COOX_{10}$ ;  $X_{10}$  is isobutyl;  $X_3$  is 2-furyl; and  $R_{7a}$  is methyl or ethyl.

Claim 64 (previously presented) The taxane of claim 57 wherein  $R_2$  is benzoyloxy;  $R_7$  is  $R_{7a}OCO-$ ;  $X_5$  is  $-COOX_{10}$ ;  $X_{10}$  is t-butyl or tert-amyl;  $X_3$  is 2-furyl; and  $R_{7a}$  is benzyl.

Claim 65 (previously presented) The taxane of claim 57 wherein  $R_2$  is benzoyloxy;  $R_7$  is  $R_{7a}OCO-$ ;  $X_5$  is  $-COOX_{10}$ ;  $X_{10}$  is t-butyl;  $X_3$  is 3-furyl; and  $R_{7a}$  is methyl or ethyl.

Claim 66 (previously presented) The taxane of claim 57 wherein  $R_2$  is benzoyloxy;  $R_7$  is  $R_{7a}OCO-$ ;  $X_5$  is  $-COOX_{10}$ ;  $X_{10}$  is isobutyl;  $X_3$  is 3-furyl; and  $R_{7a}$  is methyl or ethyl.

Claim 67 (previously presented) The taxane of claim 57 wherein  $R_2$  is benzoyloxy;  $R_7$  is  $R_{7a}OCO-$ ;  $X_5$  is  $-COOX_{10}$ ;  $X_{10}$  is t-butyl;  $X_3$  is isobutenyl; and  $R_{7a}$  is methyl or ethyl.

Claim 68 (previously presented) The taxane of claim 57 wherein  $R_2$  is benzoyloxy;  $R_7$  is  $R_{7a}OCO-$ ;  $X_5$  is  $-COOX_{10}$ ;  $X_{10}$  is isobutyl;  $X_3$  is isobutenyl; and  $R_{7a}$  is methyl or ethyl.

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Claim 69 (previously presented) The taxane of claim 57 wherein  $R_2$  is benzoyloxy;  $R_7$  is  $R_{7a}OCO-$ ;  $X_5$  is  $-COOX_{10}$ ;  $X_{10}$  is t-butyl;  $X_3$  is cyclopropyl; and  $R_{7a}$  is methyl or ethyl.

Claim 70 (previously presented) The taxane of claim 57 wherein  $R_2$  is benzoyloxy;  $R_7$  is  $R_{7a}OCO-$ ;  $X_5$  is  $-COOX_{10}$ ;  $X_{10}$  is isobutyl;  $X_3$  is cyclopropyl; and  $R_{7a}$  is methyl or ethyl.

Claim 71 (previously presented) The taxane of claim 57 wherein  $R_2$  is benzoyloxy;  $R_7$  is  $R_{7a}OCO-$ ;  $X_5$  is  $-COX_{10}$ ;  $X_{10}$  is 2-furyl or 2-thienyl;  $X_3$  is 2-thienyl; and  $R_{7a}$  is methyl or ethyl.

Claim 72 (previously presented) The taxane of claim 57 wherein  $R_2$  is benzoyloxy;  $R_7$  is  $R_{7a}OCO-$ ;  $X_5$  is  $-COX_{10}$ ;  $X_{10}$  is trans-propenyl;  $X_3$  is 3-thienyl; and  $R_{7a}$  is methyl or ethyl.

Claim 73 (previously presented) The taxane of claim 57 wherein  $R_2$  is benzoyloxy;  $R_7$  is  $R_{7a}OCO-$ ;  $X_5$  is  $-COX_{10}$ ;  $X_{10}$  is trans-propenyl;  $X_3$  is 2-furyl; and  $R_{7a}$  is methyl or ethyl.

Claim 74 (previously presented) The taxane of claim 57 wherein  $R_2$  is benzoyloxy;  $R_7$  is  $R_{7a}OCO-$ ;  $X_5$  is  $-COX_{10}$ ;  $X_{10}$  is phenyl, trans-propenyl, or isobutenyl;  $X_3$  is 2-thienyl; and  $R_{7a}$  is methyl or ethyl.

Claim 75 (previously presented) The taxane of claim 57 wherein  $R_2$  is benzoyloxy;  $R_7$  is  $R_{7a}OCO-$ ;  $X_5$  is  $-COX_{10}$ ;  $X_{10}$  is trans-propenyl;  $X_3$  is 3-furyl; and  $R_{7a}$  is methyl or ethyl.

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Claim 76 (previously presented) The taxane of claim 57 wherein  $R_2$  is benzoyloxy;  $R_7$  is  $R_{7a}OCO-$ ;  $X_5$  is  $-COX_{10}$ ;  $X_{10}$  is trans-propenyl;  $X_3$  is 2-thienyl; and  $R_{7a}$  is benzyl.

Claim 77 (previously presented) The taxane of claim 57 wherein  $R_2$  is benzoyloxy;  $R_7$  is  $R_{7a}OCO-$ ;  $X_5$  is  $-COX_{10}$ ;  $X_{10}$  is isobutenyl;  $X_3$  is 2-furyl; and  $R_{7a}$  is ethyl or benzyl.